to the extent unavoidable by the track of the needle. In all deligations of vessels, the least pessible separation from surrounding connections is absalutely necessory to diminish the risk of homorrhage; but in this operation, it is importent in lessening the risk of inflommation in the chest, the seat of which is the pleura or pericardium, or both: a more frequent cause of death than even hemorrhage after tying the subclavian. The cellular tissue surrounding the artery is the structure between it and the upper part of the pleura, and the less this is disturbed, the less will be the danger of inflammation arising in it and spreading from it to the pleura. This cese will moke 48 recorded examples of this operation, and the importance of the view just stated must be ovident, when it is mentioned that 24 of the patients lived and 24 died, and that the principal causes of death were, in the order of frequency, inflammation within the chest, suppuration in the ancurismal sac, and hemorrhage."

32. Rupture of External Itiac Artery; Ligature of Common Itiac Artery.— Mr. A. M. Earrarns records (Edinburyh Med. Journ., Jan., 1858) the following interesting example of this:-

"On June 19th, I was brought, by Dr. Brodie, te see Denald McDenald, n discharged seldier, et. 27, of songuino temperament, muscular and well formed. He had been discharged, on account of deafness, fram a Highland regiment, in which he had served during the Crimean campaign, and in which he had twice attained the rank of sergeant, and been as often reduced to the ranks for drunkenness. Three menths ago, he remarked a tumenr, the size of an apple, pulsating in his right hypogostrium, and within the lost few days, has been troubled with pain and swelling of the right foot and leg, which he thought was brought on by the long distances his scamty supply of money obliged him to travel on foot. On the morning of June 18th, the pain in his groin was mare severe, and he was bathing the part with cold water, when he suddenly felt something give way in his abdomen, and the pain greatly increased, while, at the same time, there was a sensation of warm shid flowing towards the seet of pain. Dr. Brodie was quickly on the spot, and found him with a celd surface and a scarcely perceptible pulse, very faint, and apparently dying from internal hemorrhago. He rallied, howover, and with the view of lessening tho arterial impulse, and the likelihood of a recurrence of the bleeding, Dr. Brodio prescribed lineture of aconite, perfect rest and quiet, with abstinence from stimulants and animal food. There was now a distinct tumour, extending upwards from Poupart's ligament towards the level of the umbilious, with no defined limits, but distinct pulsation. The patient complained of intense pain and tension of the abdamen. He lay quiet for several hours, when be suddenly expressed a wish to micturate, and, when attempting to do so, faioted. He again rallied, and the remedies were continued.

"I saw him about neen, the following day, with Dr. Brodie, whe I found was of opinion that the tumour was an iliae ancurism, and that Drs. Coldstream and Littlejohn were also of this opinion; but as none of those gentlemen had seen the tumour before its outline became diffused, they could not determine as to its exact situation. As it was clear, however, that wherever the ancurism might be, it had burst, and the mon was likely to bleed to death, I informed Dr. Bredie that, with his concurrence, and it urgent symptoms again set in, I should have ne hesitation in putting a ligature round the commen trunk, as that, though a desperate remedy, alone gove the peer fellow a chance of life. He was in great ogony, begged that a cut might be made to relieve the tension, and even volunteered to do it himself if we had any hesitation. But towards the afternoon, the pain abated, and he dezed a good deel, so we centented ourselves with the neonite, and rest. When, at 9 P. M., he again complained of severe pain, and the tumour considerably increesed in size.

"At 8 A. M., the following morning, we found him evidently much weaker, with a small, frequent pulse, and complaining of great pain. The tumour now extended from Poupart's ligament below to the last rib above, then crossed upwards and inwards to the umbilious, ourving to the left of the middle line down again to the pubes. The skin envering the tumour was red and tender, and the abdomen distended with flatus. Dr. Brodie administered chloroform to the patient, and we then lifted him from his bed to a table placed in front of the window, his head and shoulders raised on pillows, and his legs hanging

over the end of the table. Dr. Bredie kept up the massthesia, and Mr. Lizars, Mr. Mackinnon, and Mr. Nunn, were good enough to assist me.

"I began by making an incision, which curved forwards from above Poupart's ligament a couple of inches internal to the autorior superior iliae spine, as far ns the last rib dividing the external oblique. The internal oblique now appeared bruised, and, as it were, injected with blood, which gave it the appearnnco of unusual thickness, so that I almost doubted, at one time, whether I was not dividing the transversalis with it, but a branch of the deep circumflex, nnd the ilie-hypogastrie nerve, the white line of which contrasted well with the purple colour of the musele, showed me where I really was. So I tied the arterial twigs, as it was necessary to economize blood, and divided the transversalis fascia. The poritoneum now appeared, covered with purple staius, as the surface of the bowel sometimes is in a hernial sac. It was but slightly adherent to the tunour, and I commenced peeling it off, Mr. Nunn, with his fingers in the wound, endeavouring to support it with the intestines, and so givo no more room to unnipulate. I greatly prefer the fingers to any descrip-tion of spatula, for such a purpose. It was impossible to determine the limits of the tumour, which ovidently occupied the whole right iliao fossa, and extended more to the loft than I imagined, from external examination. It was olear that I must get at the artery through this superincumbent mass, or not at all. So I passed niy finger through the thin covering of cellular tissue, and found the mass consisted of recent clots, the escape of which I endeavoured to restrain with the right hand, while I tried to 'touch bottom' with the forcfinger of the left, but every new and then n clot would slip past my finger, followed by n little blood. I took the umbilicus ns my guide, but for some time could feel nothing but clots wherever my finger passed up or down, or to one side. But I know I could trust its familiarity with the parts, and that the least touch of any fixed point would at once guide it to the vessel. At last it touched what I took to be the fourth lumbar vertebra, and in another instant it was resting on the common iline artery. Being now in a position to control the bleeding. I turned out the clots with my right hand, and got the right fore-finger also to the artery, the sheath of which I picked with my hall, and cleared it for about the breadth of my fiager tip. There was a good deal of difficulty in passing a ligature round it, as the intestines, being distended, so forced the peritoneum into the wound, in spite of Mr. Nunn's efforts to restrain it, and got over the handle of the nneurism needle, so as to prevent my elevating it. I managed, at last, to get n silk throad round the artery, tied it, and then holding the ligature in one hand and lifting the pertoneum with the other, I could see, for the first time, and show to those present, the common ilino trunk pulsating violently. It was uncovered for about one fourth of an inch, and looked white and healthy. The vein I did not see; the ureter was ndhering to the peritoneum.

"The wound was stitched up, and dressed with wet lint, and the patient laid upon his back in bed. The operation Insted about half an hour. The leg was wrapped in cotton wool. Shortly after his return to bed, the pulse rose to 100.

"At 2 P. M., he was easier than he had felt for some time; had no pain; right leg colder than the left. A tumour still romnins above the right Poupart's liga-

ment, about the size of an orange, but there is ne pulsation.

"June 21. Continued comfortable till 2 P. M., when he complained of tenderness of the bolly, and there is tympanitis, with rapid pulse. R.—Calemel gr. ij; p. opii gr. ss; to be taken every two hours. Under this treatment, the

symptoms of peritonitis abated.

"22d. The right leg has recovered the temperature of the other, but no pulsation is perceptible in may of its arteries. A rusty-coloured fluid escapes from the wound. There is no nbdominal tenderness. The bowels have been freely opened by nn enema. He continued to improve till June 26th, when, towards ovening, he beenme much excited, imagining that the room was full of Russian soldiers. An opiato was administered; but he spent a sleepless

night, and was evidently in n state of delirium tremens. From the time of the operation, we had supplied him well with stimulants, dreading such nn attack, from his previous druaken labits, in his present debilitated condition. I sought the advice of Dr. Soller, who prescribed a drashm of the solution of morphia, which was administered immediately, and gave the patient a sleep of five conseentive hours, after which he nwake, ealm, and free from delirium. The wound partly healed by first intention, but the central part continued opeu, and discharged decomposed clots. He continued, however, to gain strongth up to July 2d, when he had un attack of diarrhem, which lasted two days.

"July 6. Sixteen days from the operation, the ligature came away. He new Education is fair way of recovery, and, as my health obliged me to leave Educated in a fair way of recovery, and, as my health obliged me to leave Education, gentlemen to whose kindness I have been much indebted en many occasions. Dr. Brodie was good enough to assist with his advice. From Mr. Nuna's notes, I find that the patient centinued well up to July 10th, the edges of the wound granulating, and the discharge healthy; but about this time, he became very weak, and there was a slight oczing of blood from the wound. He centinued, without apparent cause, to less strength for a day or two, when he seemed to

rally, and regain his spirits and appetite.

"On the 15th of July, Mr. Nuin dressed the wound at noon; the patient seemed decidedly botter, and the wnund healing; but he had searcely left the house, when the patient, expressing n sudden desire to make water, started up in bed, and, with an exclamation of alarm, foll back on the pillew. The nurse, on turning down the bedelethes, saw blood gushing from the wound. Mr. Nunn was immediately recalled, but, of course, no further offert to save the

mnn's life was possible, and death ensued in about five minutes.

"My friend and late colleague, Mr. Paull, now of Suadorland, was good enough to examine the parts tweaty-four hours after death. He describes the wound, and its neighbourhood, as presenting a healthy appearance. The peritoneum was thickened, nad of n dark colour, more or less adherent to the inlestines, which were covered here and there with lymph. The intestines being removed, the common iliae trunk was exposed, with the ureter crossing it. At the point of deligation, which was about half an inch from the bifurcation of the norta, the common iline artery was divided, the two ends lying about an inch and n half npart, but united by cellular tissue, and each end, as Dr. Brodie, who was present, informs me, tapered to a point. On tracing the distal portion, which was firmly plugged, an anourism, as large as an erange, was found upon the external iliao artory. This was covered with recent blood, which, on being removed, was found to covor a ront exteading agarly the whole length of the nucurismal wall. All the goatlemen who saw the parts at the post-morlem examination concur in the epinion that the hemorrhoge was from the reat in the ancurism, and not from the ends of the artery. Unfortunately, ewing to the watchful opposition of the frieads, the parts were so injured in their claudestino romovni that but little satisfactory evidence can be obtained from the preparation. I should be much inclined, if called upon to operate again under similar circumstances, to place n ligature beyond the anourism, as well as on its proximal aspect, and I regret much not having done so on this occasion.

"I have laid this case before the profession because, although the common iliae trunk has been tied eight or nine times since Mett operated successfully upon Israel Crune, in 1827, still there are some features in this case which I cannot help coasidering of peculiar interest. The condition of the ancurism at the time of operation: it was not one which might have goue on for months or years, without proving necessarily fatal, but it had already burst, and the external iliae artery was pumping its blood into his abdomen. Though the execution of the operation was ultimately unsuccessful, still death was dolayed for twenty-four days, and most of this time he was in comfort, and suffered no great amount of pain. In had, during these twenty-four days, an antack of peritonitis (the portioneum was not injured in nay way except by the viclence of the blood gushing from the mourism), and also he underwent a severe attack of delirium tremens; his provinus habits made him a most unfavourable subject for any operation, and it is only surprising he survived so long. The

the operation was one of peculiar difficulty, and one for which ne set rules could be laid down. I have eften demonstrated the various preceedings for ligature of the common iliae on the dend body, and have read with admiration Sir Philip Crampton's graphic description of his operation, but I must confess the one I have just related bore but little resemblance to any of them; for, instead of the parts being as distinctly visible as on the dead body. I could see nothing, after I got through the andominal wall, save elotted blood and discoloured peritoneum; the former I dured not remove till my finger was on the vessel, ns the blood threatened to gush out on the least romovnl of the pressure, and the latter required great gentleness in handling, lest it should be scratched or torn, and thus fresh danger added to the many already existing. But the artery was reached without any disturbance of the surrounding parts, or exposuro of the vein; and I make this observation to illustrate the necessity of what I have long endeavoured to inculeate in the dissecting rooms, that to be a useful nnntemist, you must be able to recognize and appreciate parts by teach as well ns by sight, and that you can unly acquire this power by constant practice, net only in the dissection of the dead body, but in manipulating and fingering carofully all its tissues, without looking at them, as a blind man reads with the tips of his fingers."

33. Historical Critique on the Cure of Poplitcal Aneurisms by Digital Compression; with reference to several Communications made to the Société de Chirurgie. By An. Vranguit.—Sinco the publication of the valuable work of our excellent friend, M. Broen', the question of the treatment of nneurisms has been reopened and compression has resumed a pro-eminence it eight never to have lost. Perhaps this is, to a certain extent, to be attributed to the legitimate crusade waged with so much ardenr against the surgery of the knife. However this may be, the Société de Chirurgie has latterly had the good fortuno to receive three reports of nneurisms cured by compression performed with the fingers.

We had lately announced the communication of M. Venzettl, of Padua; at the same time, n work by M. Michaux, of Louvnin, containing n similar case, reached the Seciety: se that we shall, without further delay, preceed to bring

the subject before our readers.

With reference, first, to the new facts: it occurred to M. Vanzetti, who bad seen compression employed in Dublin, in 1843, to substitute, for the mechanical means there used, the hand of several successive assistants. In 1846 he made n trial of this medo nt the Hospital of Kharkoff, in Russia, conjointly with M. Scrobriakoff, surgeon to the hospital. He himself instructed the persons intrusted with the maintenance of the compression as to the place and mauner in which it should be employed. The compression was kept up for hadner in which it should be compared to the patient was operated on by ligature.

Fight years later, in 1854, M. Vanzetti received under his care in hospital.

at Padua, n mason, aged nbout 36 years, of tolerably good constitution labour-

ing under a well-marked, though medium-sized, popliteal anourism.

The pulsation ceased as seen as the femoral artery was compressed. M. Vanzetti resolved to employ compression; but, discouraged by the failure just nlluded to, he tried a great number of compressors, with much patience on his part, end much inconvenience to the sufferer. Before resorting to tying the femoral artery, he wished to try digital compression once mere, in the hope that, under his immediate superintendence, it would prove mere successful. Several assistants-seated or standing, samotimes with one hand, semetimes with both hands placed one over the other-compressed the artery with a very moderate force, sufficient to bring the walls of the artery tegether, but without inconveniencing the patient. The situation chosen was the middle third of the thigh, in order that the prefunda artery should not be oblitorated.

At the end of twelve hours there was considerable diminution of the expansive movements of the tumeur. At the end of ferty-eight hours there was ne pulsation, nor could nny bruit be heard, and the compression was withdrawn.

Des Anéurysmes et de leur Traitement. Paris, 1856.